

WE CLAIM:

1 1. In a patient programmer, a method for patient-directed therapy
2 management for a medical device comprised of:
3 accessing at least one preset clinician therapy program stored in the medical
device;
4 creating at least one personalized therapy program from the accessed preset
5 clinician therapy program;
6 storing the personalized therapy program in the medical device; and
7 executing at least one personalized therapy program.

1 1. *Sub 1* 2. The method for patient directed therapy management of claim 1 wherein
2 the personalized therapy program comprises at least one personalized therapy setting.

1 3. The method for patient directed therapy management of claim 2 wherein
2 the personalized therapy settings are comprise of at least one of an amplitude, a rate, a
3 pulse width, a pulse frequency, electrode polarities, or a directional sequence.

1 4. The method for patient directed therapy management of claim 2 wherein
2 the patient programmer executes a personalized therapy algorithm.

1 5. The method for patient directed therapy management of claim 2 wherein
2 the patient programmer executes a timing algorithm.

1 6. The method for patient directed therapy management claim 2 wherein the
2 medical device and the patient programmer communicate via telemetry.

1 7. The method for patient directed therapy management of claim 2 wherein
2 the medical device is an implantable neuro stimulator.

1 8. The method for patient directed therapy management claim 2 wherein the
2 medical device is an external neuro stimulator

1 Sub 3> 9. The method for patient directed therapy management of claim 2 wherein
2 the medical device is selected from the group consisting of a pacemaker, a defibrillator, a
3 cochlear implant, an implantable diagnostic device, and an implantable pump.

1 10. A patient directed therapy management system comprising in
2 combination:

3 a medical device comprising a telemetry block and memory with at least one
4 preset clinician therapy program; and

5 a patient programmer comprising a telemetry block, the patient programmer able
6 to allow creation of at least one personal therapy program, and storage and execution of at
7 least one personalized therapy program in the medical device.

1 *Sub 1* 11. The patient directed therapy management system of claim 10 wherein the
2 personalized therapy program comprises at least one personalized therapy settings.

1 12. The patient directed therapy management system of claim 11 wherein the
2 personalized therapy settings are comprised of at least one of an amplitude, a rate, a
3 pulse width, a pulse frequency, electrode polarities, or a directional sequence.

1 13. The patient directed therapy management system of claim 11 wherein the
2 patient programmer executes a personalized therapy algorithm.

1 14. The patient directed therapy management system of claim 11 wherein the
2 patient programmer executes a timing algorithm.

1 *Sub B4* 15. The patient directed therapy management system of claim 13 or 14
2 wherein the patient uses the graphical display screen and input medium to create and
3 store the personalized therapy programs.

1 *Sub 1* 16. The patient directed therapy management system of claim 11 wherein the
2 medical device and the patient programmer communicate via telemetry.

1 17. The patient directed therapy management system of claim 11 wherein the
2 medical device is an implantable neuro stimulator.

1 18. The patient directed therapy management system of claim 11 wherein the
2 medical device is an external neuro stimulator.

1 19. The patient directed therapy management system of claim 11 wherein the
2 medical device is selected from the group consisting of a pacemaker, a defibrillator, a
3 cochlear implant, an implantable diagnostic device, and an implantable pump.

1 20. A patient programmer for patient directed therapy management
2 comprising in combination:
3 an input medium;
4 a telemetry block; and
5 a controller able to create at least one personalized therapy program and store at
6 least one personalized therapy program in a medical device.

1 21. The patient programmer of claim 20 wherein the personalized therapy
2 program comprises at least one personalized therapy setting.

1 22. The patient programmer of claim 21 wherein the personalized therapy
2 setting are comprised of at least one of an amplitude, a rate pulse width, a pulse
3 frequency, electrode polarities, or a directional sequence.

1 23. The patient programmer of claim 21 wherein the computer instructions
2 executed by the patient programmer are a personalized therapy algorithm.

1 24. The patient programmer of claim 21 wherein the executed computer
2 instructions are a timing algorithm.

1 25. The patient programmer of claim 23 or 24 wherein the patient uses a
2 graphical screen interface and input medium to create and store the personalized therapy
3 programs.

1 26. The patient programmer of claim 21 wherein the medical device and the
2 patient programmer communicate via telemetry.

1 27. The patient programmer of claim 21 wherein the medical device is an
2 implantable neuro stimulator.

1 28. The patient directed therapy management system of claim 21 wherein the
2 medical device is an external neuro stimulator.

Surj B/1} 29. The patient directed therapy management system of claim 17 wherein the
2 medical device is a medical device selected from the group consisting of a pacemaker,
3 defibrillator, a cochlear implant, an implantable diagnostic devices, and an implantable
4 pump.

1 30. A patient programmer comprising:

2 an input medium;

3 a means, connected to the input medium, for creating at least one personalized

4 therapy program; and

5 a communication means, connected to the means for creating, for storing and

6 executing at least one personalized therapy program in a medical device.

*Ref
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